

Claims

1. Method to protect content within protected data areas on a target optical record carrier against unauthorized reading and/or copying with a computer,
5 characterized by the steps of
 - determining whether a target optical record carrier or a non-target optical record carrier is inserted into a drive of the computer, and
 - in case a target optical record carrier is inserted into the drive of the computer
 - 10 - modifying read requests to the protected data areas so that no data is read or the read data is useless, and/or
 - modifying write commands in respect to the data within the protected data areas to a recordable record carrier or other storage so that the written data is useless.
- 15 2. Method according to claim 1, characterized in that the modifying of read requests and/or of write commands is performed only in case no authentication is available.
- 20 3. Method according to claim 1 or 2, characterized in that the determining and modifying steps are performed by routines implemented into a drive control layer within the computer.
- 25 4. Method according to claim 3, characterized in that the routines
 - replace a dispatch routine and a completion routine, and
 - have the functionality to perform the determining and modifying steps and to call the replaced dispatch and completion routines for their execution based on the original or modified read requests and/or write commands.
- 30 5. Method according to claim 3 or 4, characterized in that the routines are implemented by a driver that gets installed by an executable that gets automatically started when a target optical record carrier is inserted into the drive.
- 35 6. Method according to claim 5, characterized in that the driver
 - gets automatically loaded after each start of the computer, and/or
 - does not comprise an unload routine, and/or

- changes its name randomly, and/or
- comprises filetimes that are set randomly, and/or
- comprises code that is changed randomly, and/or
- is installed multiple times, but is only one time active, and/or
- 5 - can be installed by installation programs spread all over the computer's system.

7. Method according to claim 5 or 6, characterized in that the driver comprises a communication interface to allow an exchange of control data and/or authentication data.

8. Method according to anyone of the preceding claims, characterized in that a target optical record carrier is distinguished from a non target optical record carrier by evaluating

- 15 - a predetermined session of the optical record carrier in respect to special modifications, and/or
- at least one of the tables of contents of the optical record carrier in respect to special entries, and/or
- a predetermined session of the optical record carrier in respect to special subcode modifications, and/or
- 20 - predetermined data stored on the optical record carrier in respect to a watermark.

9. Method according to anyone of the preceding claims, characterized in that a protected data area is identified on basis of

- a sector type, and/or
- a range of sectors, and/or
- sectors that are subject of specific read sequences.

10. Method according to anyone of the preceding claims, characterized in that a protected data area is defined by

- at least one predetermined area, and/or
- data stored on the optical record carrier itself.

11. Method according to anyone of the preceding claims, characterized in that the modifying of read requests so that the read data is useless, and/or the modifying of write commands so that the written data is useless comprises

- to abort a corresponding IO Request and/or IO Command with an error, and/or
- to complete the corresponding IO Request and/or IO Command, but without processing the actual request and/or command, and/or
- 5 - to modify the respective data so that it is useless.

12. Computer program product, comprising computer program means adapted to perform the method steps as defined in anyone of claims 1 to 11 when being executed on a computer, digital signal processor, or the like.

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13. Computer readable storage means, comprising a computer program product according to claim 12.

14. Optical record carrier, **characterized by** an executable that gets automatically started when the optical record carrier is inserted into the drive and that

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- performs the method steps as defined in anyone of claims 1 to 11 when being executed on a computer, digital signal processor, or the like, and/or

- installs a driver that performs the method steps as defined in anyone of

claims 1 to 11 when being executed on a computer, digital signal processor, or the like.

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15. Optical record carrier according to claim 14, **characterized in that** the executable is arranged in a data session of a multi-session CD that also

comprises an audio session.

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